

Product Data Sheet

Product Name: RJW103
Cat. No.: GC81643

Chemical Properties

Cas. No. 1276664-14-2

Formula $C_{28}H_{35}N$ M.Wt 385.58

Solubility DMSO: 100 mg/mL (259.35 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

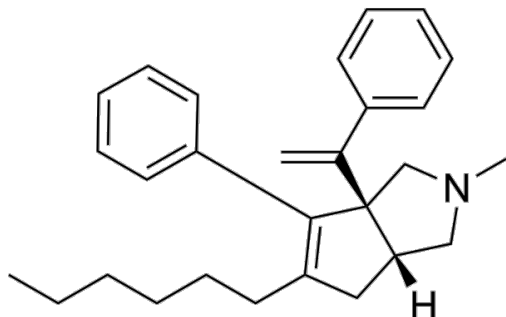
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

RJW103 is an acid-stable SF-1 (NR5A1) and LRH-1 agonist with pEC 50 values of 6.5 and 5.9, respectively. RJW103 activates SF-1 - and LRH-1 -mediated transcription of endogenous target genes. RJW103 can be used in research on cancer, endocrinology and metabolic diseases, such as adrenocortical tumors [1] [2].

In Vitro, RJW103 (10 μ M; 24 h) activates SF-1-mediated transcription of SHP, StAR, G0S2, and MeOX1 in mSF-1-expressing HEK293 cells, and activates LRH-1-mediated transcription of StAR and G0S2 (but not SHP or MeOX1) in hLRH-1-expressing HEK293 cells^[1].

References:

[1]. Whitby RJ, et al. Small molecule agonists of the orphan nuclear receptors steroidogenic factor-1 (SF-1, NR5A1) and liver receptor homologue-1 (LRH-1, NR5A2). J Med Chem. 2011;54(7):2266-

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2281.

[2]. Wu T, et al. Liver receptor homolog-1: structures, related diseases, and drug discovery. Acta Pharmacol Sin. 2024;45(8):1571-1581.

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